DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

WELDING INSPECTION REPORT

Resident Engineer: Pursell, Gary **Report No:** WIR-011028 Address: 333 Burma Road **Date Inspected:** 01-Nov-2009

City: Oakland, CA 94607

OSM Arrival Time: 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1900 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name: CWI Present: Yes No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A Yes N/A N/A **Electrode to specification:** No Weld Procedures Followed: Yes No N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes N/A **Approved Drawings:** Yes No **Approved WPS:** No Yes No N/A **Delayed / Cancelled:**

34-0006 **Bridge No: Component: OBG Deck Panel**

Summary of Items Observed:

On this day Caltrans OSM Quality Assurance (QA) Inspector Daniel Barrentine was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhen Hua Port Machinery Company (ZPMC) at Chang Xing Island in Shanghai, China. QA Inspector observed and/or found the following:

The QA inspector performed conventional Ultrasonic (UT) Inspection on Deck Panel tack weld areas. The inspection is preliminary prior to using the Phased Array (PAUT) testing system to verify indications found with conventional Ultrasonic testing. The QA inspector performed UT on Deck Panel DP 3002-001, 3 ribs, 6 welds, 186 total tack welds inspected.

Weld 1 scanned 31 locations with 1 indication.

Weld 2 scanned 31 locations with 4 indications.

Weld 3 scanned 31 locations with 1 indication.

Weld 4 scanned 31 locations with 0 indications.

Weld 5 scanned 31 locations with 6 indications.

Weld 6 scanned 31 locations with 1 indication.

Tack weld locations found non-compliant are marked on U-Rib and Deck Plate for ZPMC's reference for repair. See Caltrans U-rib to Deck Panel- Tack Weld Assessment sheets dated 1st November, 2009 for further information on PAUT inspections.

WELDING INSPECTION REPORT

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On this date QA Inspector Daniel Barrentine was given ZPMC NDT Inspection Notification Sheet, Document Nos. 004522. This QA Inspector performed required Final Magnetic Particle and Visual Testing (MT/VT) of approximately 10% of the area previously tested and accepted by ZPMC Quality control personnel, on the following items listed for final acceptance, (green tag), of the OBG sub-assemblies in trial assembly yard:

DP 132-001- 10% Final MT/ VT Acceptable, Green Tag # 009486

DP 268-001- 10% Final MT/ VT Acceptable, Green Tag # 009487

DP 349-001- 10% Final MT/ VT Acceptable, Green Tag # 009485

DP 375-001- 10% Final MT/ VT Acceptable, Green Tag # 009484

On this date QA Inspector Daniel Barrentine was given ZPMC NDT Inspection Notification Sheet, Document No. 004455. This QA Inspector performed required Ultrasonic Testing (UT) of approximately 10% of the area previously tested and accepted by ZPMC Quality control personnel, on the following items listed for the OBG sub-assemblies in trial assembly yard.

DP3008-001- 150, 151, 160, 161, 170, and 171

Summary of Conversations:

No relevant conversations.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang 15000422372, who represents the Office of Structural Materials for your project.

Inspected By:	Barrentine,Daniel	Quality Assurance Inspector
Reviewed By:	Carreon, Albert	QA Reviewer